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FILE 'HOME' ENTERED AT 13:51:44 ON 28 JUL 2010

=> file .pensee
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                                                           ENTRY    SESSION
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FILE 'USPATFULL' ENTERED AT 13:52:24 ON 28 JUL 2010
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=> e wang shan/au
E1            6     WANG SHAMINO Y/AU
E2            1     WANG SHAMINO YUANLIANG/AU
E3          818 --> WANG SHAN/AU
E4            4     WANG SHAN BA/AU
E5            1     WANG SHAN CAI/AU
E6            1     WANG SHAN CH ENG/AU
E7            8     WANG SHAN CHANG/AU
E8            1     WANG SHAN CHI/AU
E9            1     WANG SHAN CHIU/AU
E10           2     WANG SHAN CHUAN/AU
E11           1     WANG SHAN CING/AU
E12           1     WANG SHAN COLLEGE OF CIVIL ENGINEERING HARBIN ENGINEE/AU

=> s e3 and (ac tickling field)
L1            0 "WANG SHAN"/AU AND (AC TICKLING FIELD)

=> s e3 and ac field)
UNMATCHED RIGHT PARENTHESIS 'FIELD)'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s e3 and ac field
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L2            0 "WANG SHAN"/AU AND AC FIELD

=> s e3  and magnetic
L3           24 "WANG SHAN"/AU AND MAGNETIC

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4            22 DUP REM L3 (2 DUPLICATES REMOVED)

=> d l4 1-22 ti

L4   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 1
TI   Micro-plate magnetic chemiluminescence immunoassay and its
     applications in carcinoembryonic antigen analysis

L4   ANSWER 2 OF 22  BIOSIS  COPYRIGHT (c) 2010 The Thomson Corporation  on STN
TI   Isolation and identification of the main carotenoid pigment from the rare
     orange muscle of the Yesso scallop.

L4     ANSWER 3 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Growth of single-walled carbon nanotubes from tellurium nanoparticles by
       alcohol CVD

L4   ANSWER 4 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 2
TI   Magnetic nanotechnology for biodetection

L4   ANSWER 5 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Photoelectric positioning apparatus coded with Hall device

L4   ANSWER 6 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Controllable reactor with parallel magnetic circuit and
     self-shielding of magnetic leakage

L4     ANSWER 7 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Synthesis and characterization of NaYF4:Yb, Er upconversion fluorescent
       nanoparticles via a co-precipitation method

L4   ANSWER 8 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Synthesis of rod-like bis-ester liquid crystals and their influence on
     photoelectric properties of liquid crystalline materials

L4     ANSWER 9 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Synthesis and characterization of uniform-sized hollow chitosan
       microspheres

L4   ANSWER 10 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Forming method of magnetic bio-carrier for sewage treatment

L4   ANSWER 11 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   High-performance magnetic biocarrier for wastewater treatment,
     and its preparation method

L4   ANSWER 12 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Purification and structural studies of sec-butyl-cis-trans-1-propenyl
     disulfide in essential oil from FeruLa sinkiangensis K. M. Shen

L4     ANSWER 13 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     OLTP workloads on modern processor: Characterization and analysis

L4     ANSWER 14 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     New method on uniformity tuning of Ta(N) barrier layer
```

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L4     ANSWER 15 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Hydrothermally stable aluminosilicate mesostructures prepared from
       zeolite ZSM-5

L4     ANSWER 16 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Spin wave based logic circuits

L4     ANSWER 17 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Fluidization of nano-sized particles - design and operation issues

L4   ANSWER 18 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Preparation and application of assembled magnetic composite
     particle

L4   ANSWER 19 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Synthesis and NMR elucidation of adrafinil

L4   ANSWER 20 OF 22     MEDLINE on STN
TI   Identifying N-nitrosofenfluramine in a nutrition supplement.

L4     ANSWER 21 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     HRTEM study of Al2O3 barriers in Co81Pt19/Co/Al-Al2O3/Ni80Fe20 spin
       dependent tunneling junctions

L4   ANSWER 22 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   The 1997 IEEE International Magnetics Conference (Intermag '97),
     Part I, held at the Hyatt Regency Hotel, New Orleans, Louisiana, 1-4 April
     1997. [In: IEEE Trans. Magn., 1997; 33(5 Pt. 1)]


=> s l4 and tickle or tickling
L5         735 L4 AND TICKLE OR TICKLING

=> s tickle or tickling
L6        1658 TICKLE OR TICKLING

=> s l6 and l4
L7           0 L6 AND L4

=> s l4 and ac
L8           0 L4 AND AC

=> s e3 and ac
L9           7 "WANG SHAN"/AU AND AC

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10            5 DUP REM L9 (2 DUPLICATES REMOVED)

=> d l10 1-5

L10  ANSWER 1 OF 5  USPATFULL on STN
AN     2008:265858  USPATFULL <<LOGINID::20100728>>
TI     Power control circuit with alarm
IN     Chen, Chao, Guangdong, CHINA
         Wang, Shan, Hunan, CHINA
PI     US 20080232016      A1  20080925
AI     US 2007-688887      A1  20070321 (11)
DT     Utility
FS     APPLICATION
```

```
LN.CNT 152
INCL    INCLM: 361/093.100
NCL     NCLM:  361/093.100
IC      IPCI   H02H0003-08 [I,A]
        IPCR   H02H0003-08 [I,C]; H02H0003-08 [I,A]

L10  ANSWER 2 OF 5  METADEX  COPYRIGHT 2010 CSA on STN
AN   2007(09):71-197873  METADEX <<LOGINID::20100728>>
TI   Development of TIG welding machine with digital IGBT.
AU   Li, He-Qi (College of Material Science and Engineering, Lanzhou Univ.
     of Tech., Lanzhou 730050, China ); Guo, Xue-Liang; Wang, Shan; Zhang,
     Peng; Li, Hong
SO   Lanzhou Ligong Daxue Xuebao / Journal of Lanzhou University of Technology
     (20070200), vol. 33, 1, pp. 21-24
     Published by: Lanzhou University of Technology, 85 Langongping Road,
     Lanzhou, Gansu Province, 730050, mailto: journal@lut.cn. 20070200
     ISSN: 1673-5196
DT   Journal
CY   China
LA   Chinese

L10  ANSWER 3 OF 5  METADEX  COPYRIGHT 2010 CSA on STN
AN   2007(01):55-002518  METADEX <<LOGINID::20100728>>
TI   Digital IGBT inverter AC/DC pulsed TIG welding power sources
     based on DSP.
AU   Li, Chun-Xu (State Key Lab. Of Advanced Non-ferrous Materials,
     Lanzhou Univ. of Tech., Lanzhou 730050, China ); Wang, Shan; Guo,
     Xue-Liang
SO   Dianhanji / Electric Welding Machine (20061000), vol. 36, 10, pp. 31-35
     Published by: Electric Welding Machine, No. 29, Dongyiduan 2nd Ring Road,
     Chengdu, mailto: dhj@71dhj.com, URL: www.71dhj.com. 20061000
     ISSN: 1001-2303
DT   Journal
CY   China
LA   Chinese

L10  ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2010 ACS on STN
AN   2004:1010027  CAPLUS <<LOGINID::20100728>>
DN   142:356059
TI   Method for preparing sulfide/polymer composite microsphere with patterned
     surface
IN   Fang, Yu; Bai, Chaoliang; Zhang, Ying; Wang, Shan; Hu, Daodao;
     Wang, Mingzhen; Gao, Lining
PA   Shaanxi Normal University, Peop. Rep. China
SO   Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.
     CODEN: CNXXEV
DT   Patent
LA   Chinese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     --------------      ----   --------    --------------------   --------
PI   CN 1473648           A     20040211    CN 2003-134477         20030808
     CN 1191115           C     20050302
PRAI CN 2003-134477               20030808

L10  ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2010 ACS on STN  DUPLICATE 1
AN   2004:205954  CAPLUS <<LOGINID::20100728>>
DN   140:310157
TI   Preparation of spherical nanostructured poly(methacrylic acid)/PbS
     composites by a microgel template method
AU   Zhang, Ying; Fang, Yu; Wang, Shan; Lin, Shuyu
```

```
CS   School of Chemistry and Materials Science, Shaanxi Normal University,
     Xi'an, Shaanxi, 710062, Peop. Rep. China
SO   Journal of Colloid and Interface Science (2004), 272(2), 321-325
     CODEN: JCISA5; ISSN: 0021-9797
PB   Elsevier Science
DT   Journal
LA   English
OSC.G   20    THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
RE.CNT  25    THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s e3 and (magnetic field)
L11          3 "WANG SHAN"/AU AND (MAGNETIC FIELD)

=> d l11 1-3

L11    ANSWER 1 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN     2010-1012755563   COMPENDEX <<LOGINID::20100728>>
TI     Magnetic Nanotechnology for Biodetection
AU     Han Shu-Jen; Wang Shan
CS     Han Shu-Jen (IBM T.J. Watson Research Center, Yorktown Heights, NY
       (US)); Wang Shan (Stanford University, Stanford, CA (US))
       EMAIL: sjhan@us.ibm.com
SO     JALA - Journal of the Association for Laboratory Automation (Apr 2010)
       Volume 15, Number 2, pp. 93-98, 20 refs.
       CODEN: JALLFO  ISSN: 1535-5535  E-ISSN: 1540-2452
       DOI: 10.1016/j.jala.2009.10.008
       Published by: Elsevier Inc., 170 S Independence Mall W 300 E,
       Philadelphia, PA 19106-3399 (US)
PUI    S1535553509002408
CY     United States
DT     Journal; Article
LA     English
SL     English
ED     Entered STN: 16 Mar 2010
       Last updated on STN: 16 Mar 2010

L11    ANSWER 2 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN     2009-4312389817   COMPENDEX <<LOGINID::20100728>>
TI     Spin wave based logic circuits
AU     Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang; Lee Dok Won;
       Wang Shan
CS     Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang (Electrical
       Engineering, University of California Los Angeles, 420 Westwood Plaza
       Box 951594, Los Angeles, CA, 90095-1594 (US)); Lee Dok Won; Wang Shan
       (Stanford University, Stanford, CA, 94305-4045 (US))
SO     Materials Research Society Symposium Proceedings - Nanoscale Magnetics
       and Device Applications. Materials Research Society Symposium
       Proceedings (2007) Volume 998, pp. 98-102, 8 refs.
       CODEN: MRSPDH  ISSN: 0272-9172  ISBN: 9781605604312
       Published by: Materials Research Society, 506 Keystone Drive,
       Warrendale, PA 15086 (US)
       Conference:  Nanoscale Magnetics and Device Applications - 2007 MRS
       Spring Meeting San Francisco, CA (US), 9 Apr 2007-13 Apr 2007
CY     United States
DT     Conference; (Conference Paper)
LA     English
SL     English
ED     Entered STN: 28 Oct 2009
       Last updated on STN: 28 Oct 2009
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L11    ANSWER 3 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN     2008-4011612753   COMPENDEX <<LOGINID::20100728>>
TI     New method on uniformity tuning of Ta(N) barrier layer
AU     Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian
CS     Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian (Applied Material
       China Co. Ltd., BDA, Area A, No. 1, North Di Sheng Street, 100176,
       Beijing (CN))
SO     Semiconductor Technology, ISTC 2008 - Proceedings of the 7th
       International Conference on Semiconductor Technology. Proceedings -
       Electrochemical Society (2008) Volume PV 2008-1, pp. 327-330,
       var.pagings p., 2 refs.
       ISBN: 9789881740816
       Published by: Electrochemical Society Inc.
       Conference:  7th International Conference on Semiconductor Technology,
       ISTC 2008 Shanghai (CN), 15 Mar 2008-17 Mar 2008
CY     United States
DT     Conference; (Conference Paper)
LA     English
SL     English
ED     Entered STN: 5 Jan 2009
       Last updated on STN: 5 Jan 2009


=> e white robert/au
E1          134     WHITE ROB/AU
E2            1     WHITE ROBER/AU
E3          212 --> WHITE ROBERT/AU
E4          147     WHITE ROBERT A/AU
E5           45     WHITE ROBERT A H/AU
E6           15     WHITE ROBERT A JR/AU
E7            3     WHITE ROBERT ALFRED ALBERT/AU
E8            2     WHITE ROBERT ALLEN/AU
E9            1     WHITE ROBERT ALTON JR/AU
E10           1     WHITE ROBERT ALVIN/AU
E11           2     WHITE ROBERT ANTHONY/AU
E12           1     WHITE ROBERT ARTHUR/AU

=> s e1-e3
L12         347 ("WHITE ROB"/AU OR "WHITE ROBER"/AU OR "WHITE ROBERT"/AU)

=> s l12 and (magnetic field)
L13           2 L12 AND (MAGNETIC FIELD)

=> d l13 1-2

L13  ANSWER 1 OF 2  USPATFULL on STN
AN     2006:331999  USPATFULL <<LOGINID::20100728>>
TI     Method of and apparatus for determining if a buried current carrying
       conductor is buried above predetermined minimum depth
IN     Thompson, Jeff, Cheltenham, UNITED KINGDOM
       Pearson, Richard, Bristol, UNITED KINGDOM
         White, Robert, Leicestershire, UNITED KINGDOM
PI     US 20060284610       A1  20061221
       US 7339379           B2  20080304
AI     US 2006-455660       A1  20060620 (11)
PRAI   GB 2005-12564           20050620
DT     Utility
FS     APPLICATION
LN.CNT 614
INCL   INCLM: 324/067.000
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NCL    NCLM:  324/326.000; 324/067.000
       NCLS:  324/067.000
IC     IPCI   G01R0019-00 [I,A]
       IPCI-2 G01V0003-08 [I,A]; G01V0003-11 [I,A]; G01V0003-10 [I,C*]
       IPCR   G01R0019-00 [I,C]; G01R0019-00 [I,A]; G01V0003-08 [I,C*];
              G01V0003-08 [I,A]

L13  ANSWER 2 OF 2  USPATFULL on STN
AN     92:60231  USPATFULL <<LOGINID::20100728>>
TI     Hub-mounted vehicle back-up alarm
IN     Hutchisson, James, Bellevue, WA, United States
         White, Robert, Kent, WA, United States
PA     Dominion Automotive Industries Corp., Florence, KY, United States (U.S.
       corporation)
PI     US 5132665             19920721
AI     US 1990-545512         19900627 (7)
DT     Utility
FS     Granted
LN.CNT 479
INCL   INCLM: 340/463.000
       INCLS: 340/466.000; 340/672.000; 340/670.000; 340/671.000; 340/693.000;
              307/009.100; 307/122.000; 200/061.550; 310/025.000; 310/040.000R;
              310/067.000A; 310/068.000E
NCL    NCLM:  340/463.000
       NCLS:  200/061.550; 307/009.100; 307/122.000; 310/025.000; 310/040.000R;
              310/067.000A; 310/068.000E; 340/466.000; 340/670.000;
              340/671.000; 340/672.000; 340/693.200
IC     [5]
       ICM    B60Q001-22
       ICS    G08B021-00
       IPCI   B60Q0001-22 [ICM,5]; B60Q0001-02 [ICM,5,C*]; G08B0021-00 [ICS,5]
       IPCR   B60Q0001-02 [I,C*]; B60Q0001-22 [I,A]
EXF    340/464-467; 340/672; 340/686; 340/687; 340/669-671; 340/693; 310/348;
       310/1; 310/25; 310/39; 310/40R; 310/DIG.3; 310/67A; 310/68E; 307/9.1;
       307/10.1; 307/121-122; 200/61.39; 200/61.55; 200/61.57; 200/DIG.32


=> e white r/au
E1            1     WHITE QUENTIN W/AU
E2            1     WHITE QUINTON/AU
E3         2751 --> WHITE R/AU
E4            1     WHITE R 0/AU
E5            2     WHITE R 4TH/AU
E6          807     WHITE R A/AU
E7            1     WHITE R A F/AU
E8           32     WHITE R A H/AU
E9           10     WHITE R A J/AU
E10          15     WHITE R A JR/AU
E11          72     WHITE R A S/AU
E12         106     WHITE R ALLEN/AU

=> e webb chris/au
E1            3     WEBB CHIU HO T/AU
E2            2     WEBB CHLOE M B/AU
E3           44 --> WEBB CHRIS/AU
E4            1     WEBB CHRIS A/AU
E5            1     WEBB CHRIS ALBERT/AU
E6           45     WEBB CHRIS D/AU
E7            1     WEBB CHRIS DAVID/AU
E8            2     WEBB CHRIS J/AU
E9            2     WEBB CHRISTIAN A/AU
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E10          7     WEBB CHRISTINA K/AU
E11          1     WEBB CHRISTINA KAE/AU
E12         28     WEBB CHRISTINE/AU

=> s e3 and magnetic
L14          2 "WEBB CHRIS"/AU AND MAGNETIC

=> d l14 1-2

L14  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2010 ACS on STN
AN   2003:370178  CAPLUS <<LOGINID::20100728>>
DN   139:146121
TI   Detection of single micron-sized magnetic bead and
     magnetic nanoparticles using spin valve sensors for biological
     applications
AU   Li, Guanxiong; Joshi, Vikram; White, Robert L.; Wang, Shan X.; Kemp,
     Jennifer T.; Webb, Chris; Davis, Ronald W.; Sun, Shouheng
CS   Department of Materials Science and Engineering, Stanford University,
     Stanford, CA, 94305, USA
SO   Journal of Applied Physics (2003), 93(10, Pt. 2), 7557-7559
     CODEN: JAPIAU; ISSN: 0021-8979
PB   American Institute of Physics
DT   Journal
LA   English
OSC.G   84    THERE ARE 84 CAPLUS RECORDS THAT CITE THIS RECORD (84 CITINGS)
RE.CNT  8     THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14    ANSWER 2 OF 2 COMPENDEX COPYRIGHT 2010 EEI on STN
AN     2003-257509431   COMPENDEX <<LOGINID::20100728>>
TI     Detection of single micron-sized magnetic bead and
       magnetic nanoparticles using spin valve sensors for biological
       applications
AU     Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X.; Kemp Jennifer
       T.; Webb Chris; Davis Ronald W.; Sun Shouheng
CS     Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X. (Department of
       Materials Science, Stanford University, Stanford, CA 94305 (US)); Kemp
       Jennifer T.; Webb Chris; Davis Ronald W. (Stanford Genome Technology
       Center, Stanford University, Palo Alto, CA 94304 (US)); Sun Shouheng
       (IBM T. J. Watson Research Center, Yorktown Heights, NY 10598 (US))
       EMAIL: sxwang@ee.stanford.edu
SO     Journal of Applied Physics (15 May 2003) Volume 93, Number 10 2, pp.
       7557-7559, 8 refs.
       CODEN: JAPIAU  ISSN: 0021-8979
       DOI: 10.1063/1.1540176
       Published by: American Institute of Physics Inc.
CY     United States
DT     Journal; (Conference Paper); Application; Theoretical; Experimental
LA     English
SL     English
ED     Entered STN: 4 Jan 2009
       Last updated on STN: 4 Jan 2009


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<------User Break------>

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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 199.71     199.93

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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 199.71     199.93

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=> e li guanxiong/au
E1            2     LI GUANXIN DEPARTMENT OF MATERIAL SCIENCE AND ENGINEE/AU
E2           10     LI GUANXING/AU
E3           36 --> LI GUANXIONG/AU
E4            1     LI GUANXIU/AU
E5            1     LI GUANXUE/AU
E6            1     LI GUANYA/AU
E7            1     LI GUANYANG/AU
E8            1     LI GUANYE/AU
E9           16     LI GUANYI/AU
E10           1     LI GUANYIN/AU
E11           6     LI GUANYING/AU
E12           5     LI GUANYONG/AU

=> s e3  and magnetic
L15          33 "LI GUANXIONG"/AU AND MAGNETIC

=> dup rem l15
PROCESSING COMPLETED FOR L15
L16          19 DUP REM L15 (14 DUPLICATES REMOVED)

=> d l16 1-19 ti

L16  ANSWER 1 OF 19  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 1
TI   Method and system for providing a perpendicular magnetic
     recording head

L16  ANSWER 2 OF 19  BIOSIS  COPYRIGHT (c) 2010 The Thomson Corporation  on STN
TI   Magnetic nanoparticles, magnetic detector arrays, and
     methods for their use in detecting biological molecules.

L16  ANSWER 3 OF 19  USPATFULL on STN
TI     MAGNETIC NANOPARTICLES, MAGNETIC DETECTOR ARRAYS,
       AND METHODS FOR THIER USE IN DETECTING BIOLOGICAL MOLECULES

L16    ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPLICATE 2
TI     Advances in giant magnetoresistance biosensors with magnetic
       nanpparticle tags: Review and outlook

L16  ANSWER 5 OF 19  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 3
TI   Spin valve sensors for ultrasensitive detection of superparamagnetic
     nanoparticles for biological applications

L16  ANSWER 6 OF 19  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Spin valve biosensors: Signal dependence on nanoparticle position

L16    ANSWER 7 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN
TI     Spin valve biosensors: Signal dependence on nanoparticle position

L16  ANSWER 8 OF 19  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 4
TI   Magnetic nanoparticles, magnetic detector arrays, and
     methods for their use in detecting biological molecules

L16  ANSWER 9 OF 19  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 5
TI   DNA-functionalized MFe2O4 (M = Fe, Co, or Mn) nanoparticles and their
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hybridization to DNA-functionalized surfaces

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6
TI Towards a magnetic microarray for sensitive diagnostics

L16 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 7
TI Biochemical stability of components for use in a DNA detection system

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8
TI Model and experiment of detecting multiple magnetic nanoparticles as biomolecular labels by spin valve sensors

L16 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 9
TI Monodisperse MFe2O4 (M = Fe, Co, Mn) Nanoparticles

L16 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 10
TI Detection of single micron-sized magnetic bead and magnetic nanoparticles using spin valve sensors for biological applications

L16 ANSWER 15 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Analytical and Micromagnetic Modeling for Detection of a Single Magnetic Microbead or Nanobead by Spin Valve Sensors

L16 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Influence of Si buffer layer on the giant magnetoresistance effect in Co/Cu/Co sandwiches

L16 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI High giant magnetoresistance sensitivity in Co/Cu/Co sandwich with Ni buffer layer

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Highly sensitive giant magnetoresistance and in-plane magnetic anisotropy in Co/Cu/Co sandwiches with a Si buffer layer

L16 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Study on giant magnetoresistance in Co/Cu/Co sandwiches

=> d l16 2, 4-6 ibib abs

L16 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
ACCESSION NUMBER: 2010:263144 BIOSIS <<LOGINID::20100728>>
DOCUMENT NUMBER: PREV201000263144
TITLE: Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules.
AUTHOR(S): Wang, Shan X. [Inventor]; Anonymous; White, Robert L. [Inventor]; Webb, Chris D. [Inventor]; Li, Guanxiong [Inventor]
CORPORATE SOURCE: Portola Valley, CA USA
ASSIGNEE: The Board of Trustees of the Leland Stanford Junior University
PATENT INFORMATION: US 07682838 20100323
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (MAR 23 2010)
CODEN: OGUPE7. ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 13 May 2010

Last Updated on STN: 13 May 2010

AB Magnetic nanoparticles and methods for their use in detecting biological molecules are disclosed. The magnetic nanoparticles can be attached to nucleic acid molecules, which are then captured by a complementary sequence attached to a detector, such as a spin valve detector or a magnetic tunnel junction detector. The detection of the bound magnetic nanoparticle can be achieved with high specificity and sensitivity.

L16 ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPLICATE 2

ACCESSION NUMBER: 2008-2711347110 COMPENDEX <<LOGINID::20100728>>

TITLE: Advances in giant magnetoresistance biosensors with magnetic nanpparticle tags: Review and outlook

AUTHOR(S): Wang Shan X.; Li Guanxiong

CORPORATE SOURCE: Wang Shan X.; Li Guanxiong (Department of Materials Science and Engineering, Stanford University, Stanford, CA 94305 (US)); Wang Shan X. (Department of Electrical Engineering, Stanford University, Stanford, CA 94305 (US)); Li Guanxiong (Western Digital Corporation, Fremont, CA 94539 (US))
EMAIL: sxwang@ee.stanford.edu

SOURCE: IEEE Transactions on Magnetics (Jul 2008) Volume 44, Number 7, pp. 1687-1702, 57 refs.
CODEN: IEMGAQ ISSN: 0018-9464
DOI: 10.1109/TMAG.2008.920962
Published by: Institute of Electrical and Electronics Engineers Inc.

COUNTRY OF PUBLICATION: United States

DOCUMENT TYPE: Journal; (Conference Paper)

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 5 Jan 2009
Last updated on STN: 5 Jan 2009

AN 2008-2711347110 COMPENDEX <<LOGINID::20100728>>

AB We present a review of giant magnetoresistance (GMR) spin valve sensors designed for detection of magnetic nanoparticles as biomolecular labels (nanotags) in magneto-nano biodetection technology. We discuss the intricacy of magneto-nano biosensor design and show that as few as approximately 14 monodisperse 16-nm superparamagnetic Fe3O4 nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in (narrow band) detection. GMR biosensors and biochips have been success-fully applied to the detection of biological events in the form of both protein and DNA assays with great speed, sensitivity, selectivity, and economy. The limit of molecular detection is well below 10 pM in concentration, and the protein or DNA assay time can be under two hours. The technology is highly scalable to deep multiplex detection of biomarkers in a complex disease, and amenable to integration of microfluidics and CMOS electronics for portable applications. On-chip CMOS circuitry makes a sensor density of 0.1-1 million sensors per square centimeter feasible and affordable. The theoretical and experimental results thus far suggest that magneto-nano biochip-based GMR sensor arrays and nanotags hold great promise in biomedicine, particularly for point-of-care molecular diagnostics of cancer, infectious diseases, radiation injury, cardiac diseases, and other diseases. .COPYRGT. 2008 IEEE.

L16 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2006:62066 CAPLUS <<LOGINID::20100728>>

DOCUMENT NUMBER: 144:365613

TITLE: Spin valve sensors for ultrasensitive detection of superparamagnetic nanoparticles for biological

applications
AUTHOR(S): Li, Guanxiong; Sun, Shouheng; Wilson, Robert J.; White, Robert L.; Pourmand, Nader; Wang, Shan X.
CORPORATE SOURCE: Department of Materials and Engineering, Stanford University, Stanford, CA, 94305-4045, USA
SOURCE: Sensors and Actuators, A: Physical (2006), A126(1), 98-106
CODEN: SAAPEB; ISSN: 0924-4247
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We present giant magnetoresistance (GMR) spin valve sensors designed for detection of superparamagnetic nanoparticles as potential biomol. labels in magnetic biodetection technol. We discuss the sensor design and exptl. demonstrate that as few as .apprx.23 monodisperse 16-nm superparamagnetic Fe3O4 nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in detection. A patterned self-assembly method of nanoparticles, based on a polymer-mediated process and fine lithog., is developed for the detection. It is found that sensor signal increases linearly with the number of nanoparticles.
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:562138 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 145:183222
TITLE: Spin valve biosensors: Signal dependence on nanoparticle position
AUTHOR(S): Li, Guanxiong; Sun, Shouheng; Wang, Shan X.
CORPORATE SOURCE: Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305, USA
SOURCE: Journal of Applied Physics (2006), 99(8, Pt. 3), 08P107/1-08P107/3
CODEN: JAPIAU; ISSN: 0021-8979
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Exptl. and theor. studies have been carried out on the spin valve sensor signal dependence on the spatial locations of magnetic nanoparticles as potential biomol. labels in the magnetic biodetection technol. Superparamagnetic 16 nm magnetite (Fe3O4) nanoparticles were site specifically deposited at different positions relative to a submicron-wide spin valve sensor. The spin valve sensor signal showed both polarity and magnitude differences with the particles at different positions. A theor. model including magnetic sensor-particle interaction confirms the exptl. results and provides a design guide to the sensing area. Moreover, the theor. calcns. reveal a nonmonotonic signal dependence on the vertical particle-to-sensor distance due to the sensor-particle interaction, and show that an optimum distance exists for signal strength and quantification.
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l16 10, 12, 18 ibib abs

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6
ACCESSION NUMBER: 2005:402371 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 143:139042
TITLE: Towards a magnetic microarray for sensitive diagnostics
AUTHOR(S): Wang, Shan X.; Bae, Seung-Young; Li, Guanxiong ; Sun, Shouheng; White, Robert L.; Kemp, Jennifer T.; Webb, Chris D.
CORPORATE SOURCE: Geballe Laboratory for Advanced Materials, Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305-4045, USA
SOURCE: Journal of Magnetism and Magnetic Materials (2005), 293(1), 731-736
CODEN: JMMMDC; ISSN: 0304-8853
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We presented proof-of-concept expts. and modeling towards a high-sensitivity magnetic microarray which "tags" a DNA fragment (or other biol. samples) with a high-moment magnetic nanoparticle (NanoTag), which is in turn detected by a high-sensitivity spin valve (SV) or magnetic tunnel junction (MTJ) detector array. The detector can count the number of magnetic tags with a resolution of 1-20 magnetic NanoTags, potentially counting individual biomols.
OS.CITING REF COUNT: 43 THERE ARE 43 CAPLUS RECORDS THAT CITE THIS RECORD (43 CITINGS)
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 2004:804749 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 142:256924
TITLE: Model and experiment of detecting multiple magnetic nanoparticles as biomolecular labels by spin valve sensors
AUTHOR(S): Li, Guanxiong; Wang, Shan X.; Sun, Shouheng
CORPORATE SOURCE: Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305, USA
SOURCE: IEEE Transactions on Magnetics (2004), 40(4, Pt. 2), 3000-3002
CODEN: IEMGAQ; ISSN: 0018-9464
PUBLISHER: Institute of Electrical and Electronics Engineers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We present an anal. model for detection of multiple magnetic nanoparticles (NP) as biomol. labels by spin valve (SV) sensors, aiming to establish the relationship between the SV sensor signal and the number of magnetic labels. The model is based on the assumptions of equivalent average field of magnetic NPs and the coherent magnetization rotation of SVs free layer. Using the model, we have calculated the sensor signals of multiple NPs uniformly or randomly distributed over a SV sensor at various aspect ratios of the NP array. Satisfactory signal linearity at low particle number or high aspect ratio has been found. The model also reveals that the SV sensors could be made insensitive to the random configuration of NPs and only sensitive to the number of NPs. This feature is desired for quant. bio-detection. To check the validity of the model, we performed expts. on a monolayer of 16-nm Fe3O4 NPs coated on 0.3-μm-wide SV sensors. We found that the measured signals could be well described by the anal. model.
OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS

RECORD (33 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:679591 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 132:43223
TITLE: Highly sensitive giant magnetoresistance and in-plane magnetic anisotropy in Co/Cu/Co sandwiches with a Si buffer layer
AUTHOR(S): Li, Guanxiong; Shen, Honglie; Shen, Qinwo; Li, Tie; Zou, Shichang
CORPORATE SOURCE: State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Metallurgy, Chinese Academy of Sciences, Shanghai, 200050, Peop. Rep. China
SOURCE: Gongneng Cailiao Yu Qijian Xuebao (1999), 5(3), 195-200
CODEN: GCQXFW; ISSN: 1007-4252
PUBLISHER: Gongneng Cailiao Yu Qijian Xuebao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB The Co/Cu/Co sandwiches with an amorphous Si buffer layer were prepared by high vacuum electron-beam evaporation The giant magnetoresistance (GMR) effect in these sandwiches was studied. An obvious in-plane magnetic anisotropy appeared in the Co/Cu/Co sandwiches with a Si buffer layer >0.9nm. A GMR of 5.5% and a high field sensitivity of 0.9%/Oe along the easy axis in Si 1.5nm/Co 5nm/Cu 3nm/Co 5nm sandwich was obtained. The interdiffusion at Si/Co interface was studied and a cobalt silicide was found. The silicide layer formed at interface was thought to induce the in-plane magnetic anisotropy in the sandwiches, which consequently resulted in the high field sensitivity of GMR.

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FILE 'CAPLUS, MEDLINE, BIOSIS, BIOTECHNO, COMPENDEX, ANABSTR, CERAB, METADEX, USPATFULL' ENTERED AT 13:52:24 ON 28 JUL 2010
E WANG SHAN/AU
L1 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND (AC TICKLING FIELD)
L2 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND AC FIELD

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L3            24 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  "WANG SHAN"/AU AND
                 MAGNETIC
L4            22 DUP REM L3 (2 DUPLICATES REMOVED)
                 D L4 1-22 TI
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
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L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L5           735 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  L4 AND TICKLE OR TICKLING

L6          1658 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  TICKLE OR TICKLING
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L7             0 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  L6 AND L4
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL       1 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
L*** DEL      11 S E3  AND MAGNETIC
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L*** DEL      11 S E3  AND MAGNETIC
L8             0 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  L4 AND AC
L9             7 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  "WANG SHAN"/AU AND AC
L10            5 DUP REM L9 (2 DUPLICATES REMOVED)
                 D L10 1-5
L11            3 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  "WANG SHAN"/AU AND
                 (MAGNETIC FIELD)
                 D L11 1-3
                 E WHITE ROBERT/AU
L12          347 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  ("WHITE ROB"/AU OR "WHITE
                 ROBER"/AU OR "WHITE ROBERT"/AU)
L13            2 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  L12 AND (MAGNETIC FIELD)

                 D L13 1-2
                 E WHITE R/AU
                 E WEBB CHRIS/AU
L14            2 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  "WEBB CHRIS"/AU AND
                 MAGNETIC
                 D L14 1-2

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     METADEX, USPATFULL' ENTERED AT 14:52:53 ON 28 JUL 2010
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L15           33 SEA FILE=MFE SPE=ON  ABB=ON  PLU=ON  "LI GUANXIONG"/AU AND
                 MAGNETIC
L16           19 DUP REM L15 (14 DUPLICATES REMOVED)
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